MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI–DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315–2590 F (786) 315–2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

M.Q. Windows, Inc.
1855 Griffin Road, Suite A–271
Dania, Fl. 33004

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami–Dade County RER–Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/ or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "JS–OUT Outward, Shaped, Mahogany" Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **JS–2–OUT**, titled "JS Series Wood Fixed Windows Sash Outward" Sheets 01 through 12 of 12, dated 01/10/99, with revision dated 02/15/12, prepared by manufacturer, signed and sealed by Scott Wolters, P. E., bearing the Miami–Dade County Product Control Section Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with **M.Q. Windows, Inc.** or logo, **Ste.–Agathe des Monts, Quebec, Canada**, series, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA No. 13–0312.02** and consists of this page 1 and evidence pages E–1 and E–2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon 7/31/14

M. O. Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA No. 99–1228.03)
2. Drawing No. **JS–2–OUT**, titled "JS Series Wood Fixed Windows Sash Outward" Sheets 01 through 12 of 12, dated 01/10/99, with revision dated 02/15/12, prepared by manufacturer, signed and sealed by Scott Wolters, P. E.
   (Submitted under previous NOA No. 12–0221.04)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   (**Approved for HJ435 sill only**, all other sills NOT approved for water infiltration)
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202–94

   along with marked–up drawings and installation diagram of a wood fixed window, prepared by Hurricane Testing Laboratories, Inc., Test Reports No.: **HTL–0118–1006–98 (Sp#4, TAS–201/203), HTL–0118–1103–98 (Sp#1 & Sp#2, TAS–202) and (Sp#5, TAS–201, 202, 203), HTL–0118–1298–98 (Sp#6, # 7 TAS-201/ 203)** and **HTL–0118–1218–98 (Sp#6 TAS-201/ 203)**, dated 10/15/98 thru 07/06/99, signed and sealed by Timothy S. Marshall, P. E.
   (Submitted under previous NOA No. 99–1228.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC–2010**, dated 05/01/12, prepared by Wolters Engineering, Inc., signed and sealed by Scott Wolters, P. E.
   (Submitted under previous NOA No. 12–0221.04)
2. **Glazing complies with ASTM E 1300–04**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **12–1231.10** issued to Eastman Chemical Company (MA) dba Solutia, Inc. for their "**Saflex Clear and Color Glass Interlayers**" dated 04/01/13, expiring on 05/21/16.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0305.02
Expiration Date: March 01, 2019
Approval Date: August 07, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. 2nd testing agreement letter, dated 02/28/13 between Intertek Testing Services NA., Ltd. (ITS) and M.Q. Windows, Inc., issued by ITS.
   (Submitted under previous NOA No. 13–0312.02)
2. 2nd letter from manufacturer dated 03/05/13, requesting an one–year conditional renewal approval, to allow time to perform a verification test, signed by Sylvain Marcotte. ***(Submitted under previous NOA No. 13–0312.02)***
3. Statement letter of no financial interest, conformance and complying with **FBC–2010**, dated 02/15/12, signed and sealed by Scott Wolters, P. E.
   (Submitted under previous NOA No. 12–0221.04)
4. 1st letter from manufacturer dated 03/06/12, requesting an one–year conditional renewal approval, to allow time to perform a verification test, signed by Sylvain Marcotte. ***(Submitted under previous NOA No. 12–0221.04)***
5. 1st testing agreement letter, dated 02/29/12 between Intertek Testing Services NA., Ltd. (ITS) and M.Q. Windows, Inc., issued by ITS.
   (Submitted under previous NOA No. 12–0221.04)
6. Distributor Agreement between MQ Windows, Canada and MQ Windows, Inc., Dania, Florida, USA, dated 11/30/12, signed by Gilles Morin, president, respectively.
   (Submitted under previous NOA No. 12–0221.04)
7. Addendum letters for Test Reports No.'s **HTL–0118–1006–98** and **HTL–0118–1103–98**, both issued by Hurricane Test Laboratory, Inc., dated 04/27/00, signed and sealed by Vinu J. Abraham, P.E.
   (Submitted under previous NOA No. 99–1228.03)
8. Laboratory compliance letter for Test Reports No.'s **HTL–0118–1006–98, HTL–0118–1103–98, HTL–0118–1298–98** and **HTL–0118–1218–98**, issued by Hurricane Test Laboratory, Inc., dated 03/01/99, signed and sealed by Timothy S. Marshall, P. E. ***(Submitted under previous NOA No. 99–1228.03)***

G. OTHERS

1. Notice of Acceptance No. **13–0312.02**, issued to M. Q. Windows, Inc. for their Series "**JS–OUT Shaped Outward Mahogany Wood Fixed Window – L.M.I.**", approved on 03/28/13 and expiring on 03/01/14.
2. Test report on: 1) Air Infiltration Test, per FBC, TAS 202–94
   For Verification Purposes Only 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   along with marked–up drawings and installation diagram of a wood fixed window, prepared by Intertek Testing Services N.A., Ltd., Test Report No. **ITS–101071699COQ–003A**, dated 06/17/14, signed by Frederick B. Curkeet, P. E.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0305.02
Expiration Date: March 01, 2019
Approval Date: August 07, 2014

RECTANGULAR FIXED UNITS

CONFIGURATIONS: O

GENERAL NOTES:

1- THIS PRODUCT IS DESIGNED TO COMPLY WITH THE PROVISIONS OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 2010 EDITION OF THE FLORIDA BUILDING CODE.

2- THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT AND HAS BEEN TESTED IN ACCORDANCE WITH THE HIGH VELOCITY HURRICANE ZONE PROTOCOLS TAS201, 202 AND 203. NO SHUTTERS ARE REQUIRED.

3- WOOD BUCKS (BY OTHERS) AND OPENINGS MUST BE DESIGNED BY THE PROFESSIONAL OF RECORD TO PROPERLY TRANSFER WIND LOADS TO THE MAIN STRUCTURE.

4- SPECIFIED ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.

5- IN ORDER TO VERIFY THAT ANCHORS FOR THIS PRODUCT WERE NOT OVERSTRESSED AS TESTED, A 33% ALLOWABLE STRESS INCREASE **WAS NOT** USED IN THEIR ANALYSIS. HOWEVER, A LOAD DURATION FACTOR OF Cd = 1.6 WAS USED TO VERIFY THEIR SPACING IN WOOD SUBSTRATES.

VIEWED FROM THE OUTSIDE
WOOD: Mahogany

DESIGN PRESSURE
Positive Pressure: +58 psf Negative Pressure −68 psf
NOTE: Refer to table 1 for minimum and maximum sizes width (FW) & height (FH)

Information on this page applies to cross sections 1 & 20 (sash "inward") ONLY

Frame Size vs d.l.o. relation is:
Long d.l.o.= long frame dimension - 9"
Short d.l.o.=short Frame dimension- 9"

NOTE:
See section 4 on pages 6 & 7.

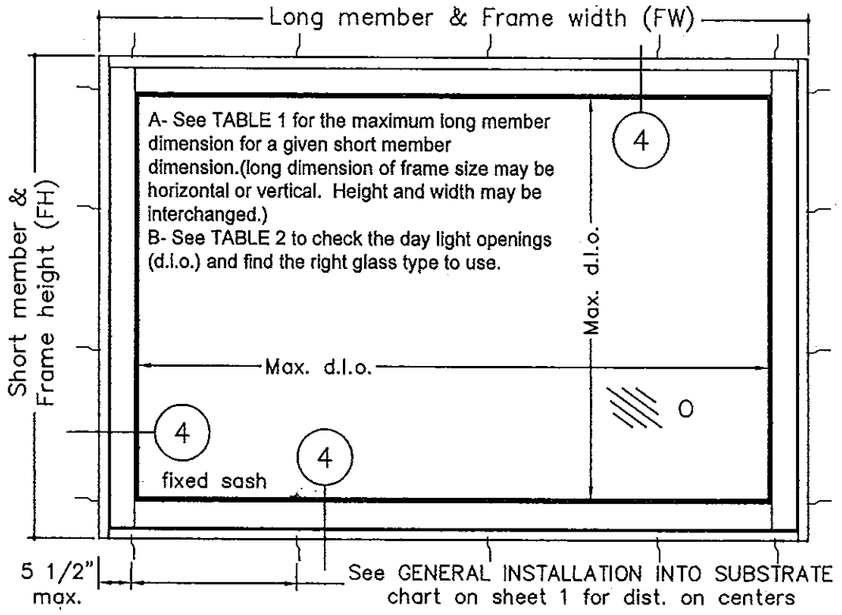


TABLE 2

GLASS TYPES FOR FRAME DIMENSIONS OF TABLE 1 OR FOR BASIC RECTANGLES GIVEN ON SHEETS 2, 3, 4 AND 5 OF THIS DRAWING

If, for a given long member d.l.o., the actual short member daylight opening exceeds the maximum dimension indicated on table 2, then
TYPE 2 heat strenghtened laminated glass
[3/16" HS - .09" PVB interlayer, Saflex IIIG by Solutia - 3/16" HS]
OR TYPE 3 full tempered laminated glass
[3/16" FT - .09" PVB interlayer, Saflex IIIG by Solutia - 3/16" FT]
MUST BE USED

Maximum daylight opening for type 1 laminated glass
[3/16" AN - .09" PVB interlayer, Saflex IIIG by Solutia - 3/16" HS]

Given Long member d.l.o. up to (in.)	Max. short member d.l.o. (in.)	Given Long member d.l.o. up to (in.)	Max. short member d.l.o. (in.)
47 1/4	47.244	*90 1/2*	28.150
51	41.339	*94 1/2*	27.953
55	38.386	*98 1/2*	27.559
59	36.220	*102 1/4*	27.362
63	34.055	*106 1/4*	26.969
66	32.480	*110 1/4*	26.772
70 3/4	31.496	*114*	26.575
74 3/4	30.512	*118*	26.378
78 3/4	29.528	*122*	26.220
82 1/2	28.937	*126*	26.102
86 1/2	28.543	*130*	25.984

GENERAL INSTALLATION INTO SUBSTRATE

Using PDF-FS-05/D Inst. Bracket

Fastener	Into 2x wood buck	Into concrete
(1) 1/4" x 2 3/4" Elco/Textron Tapcon screws		max. o/c 10 1/2" min. emb. 1 1/4"
(2) #12 x 1 1/2" wood screw	max. o/c 11" min. emb. 1 1/4"	

Direct Mount (At sill only)

Fastener	Into 2x wood buck	Into concrete
(1) 1/4" x 2 3/4" Elco/Textron Tapcon screws		max. o/c 6" min. emb. 1 1/4"
(1) #14 x 2" wood screw	max. o/c 4" min. emb. 1 1/4"	

-Materials, but not limited to steel & steel screws that come in contact with other dissimilar materials shall meet with section 2003.8.4 of the Florida Building Code.

TABLE 1

MAXIMUM SHORT & LONG FRAME DIMENSIONS FOR RECTANGULAR UNITS

GIVEN FRAME SHORT MEMBER dimension (in.) min - max.	MAX. FRAME LONG MEMBER dimension (in.) max.
35 - 40.00	139.000
34 - 41.49	134.000
33 - 43.10	129.000
32 - 44.04	124.000
31 - 44.56	119.000
30 - 45.17	114.000
29.68 - 45.375	112.375
0 - 45.38	112.374
0 - 46.00	108.167
0 - 47.00	102.447
0 - 48.00	97.783
0 - 49.00	93.927
0 - 50.00	90.703
0 - 51.00	87.983
0 - 52.00	85.672
0 - 53.00	83.695
0 - 54.00	81.997
0 - 55.00	80.533
0 - 56.00	79.267
0 - 60.00	75.690
0 - 64.00	73.719
0 - 68.00	72.747
0 - 70.00	72.526
0 -72.00	72.440
0 -72.438	72.438

GENERAL INSTALLATION NOTES

All PDF-FS-05D Installation brackets screwed to the window frame using (2) #10 x 1" a.t. wood screws w/ 7/8" min. embedment.

Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.

Min. edge distance is 2 ½ " for concrete fasteners .

Shim Space: 3/8" MAX. @ head, jambs & sill. Use std shims behind as required.

MQ WINDOWS OF EUROPE AND THE AMERICAS
1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH OUTWARD

Drawing no.: JS-2-OUT	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-OUT	Page: 1 / 12

STRUCTURALLY REVIEWED BY:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING, INC.
(COA# 27194)
1271 GRANT STREET
HOLLYWOOD, FL 33019

FEB 15 2012

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0221.04
Expiration Date MARCH 1, 2013
By Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 14-0305.02
Expiration Date 03/01/2019
By Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0312.02
Expiration Date 03/01/2014
By Miami Dade Product Control

RECTANGULAR FIXED UNITS

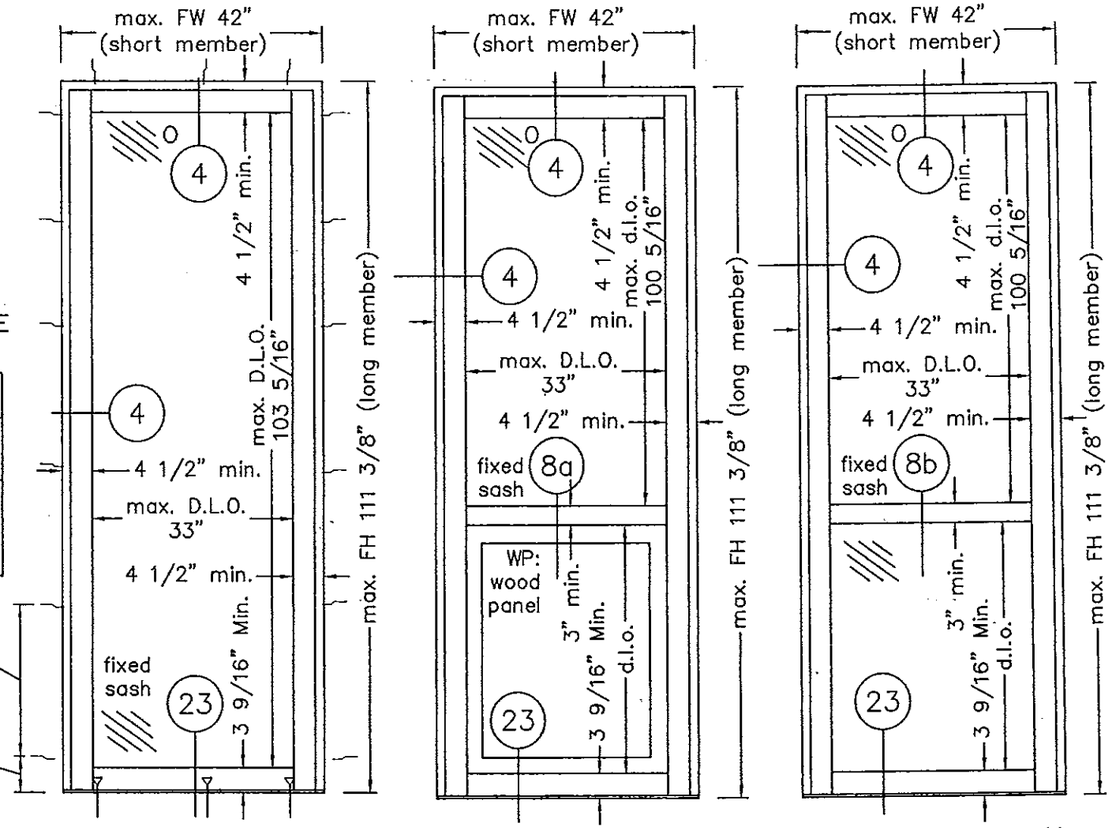
CONFIGURATIONS: O

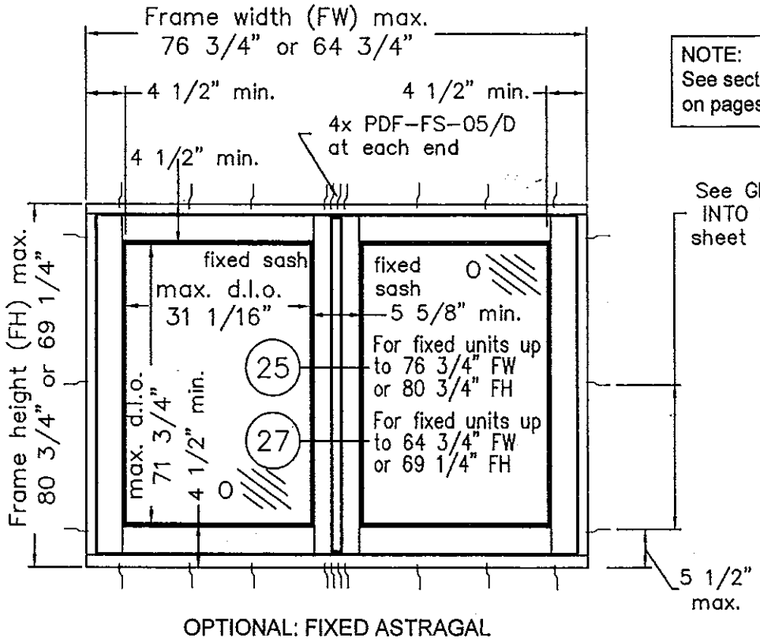
MAX. FW & FH AS INDICATED

Information on this page applies to cross sections 4 & 23 (sash "outward") ALUMINUM THRESHOLD ONLY

VIEWED FROM THE OUTSIDE
WOOD: Mahogany

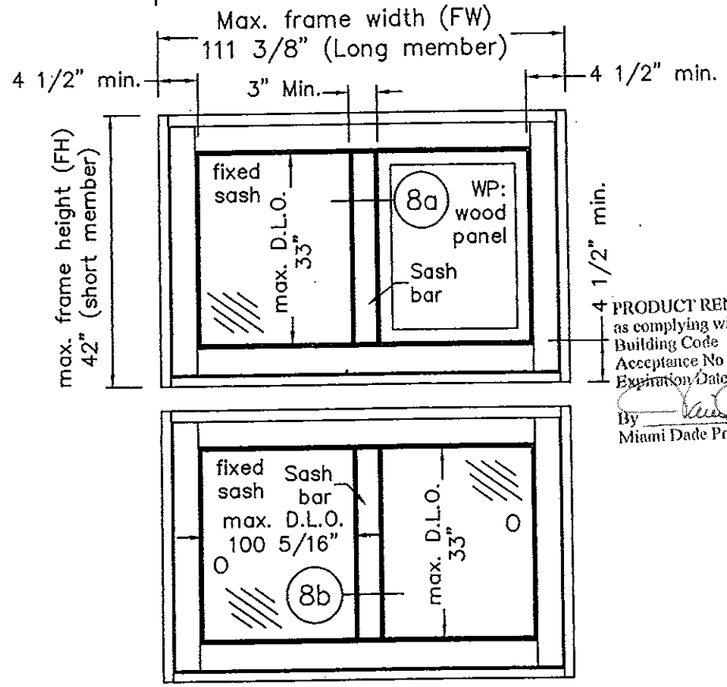
DESIGN PRESSURE
Positive Pressure: +58 psf Negative Pressure −68 psf
maximum frame width (FW) and height (FH) as indicated NO SHUTTERS ARE REQUIRED.





OPTIONAL: FIXED ASTRAGAL

NOTE:
See sections 4, 8a, 8b, 23, 25 and 27 on pages 6 & 7 respectively.



OPTIONAL: SASH BAR

TYPE OF GLASS: SINGLE, 15/32" LAMINATED

For sizes shown on table 2, sheet 11:
TYPE 1, MADE OF:
3/16"(AN)-0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS)
For sizes over those on table 2:
TYPE 2, MADE OF:
3/16"(HS)-0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS)
OR TYPE 3, MADE OF:
3/16"(FT)-0.090" PVB Saflex III G interlayer by Solutia-3/16"(FT)

WP: 1 3/4" RAISED WOOD PANEL

Solid Mahogany, MAX. D.L.O. AREA: 7.81 sqf.
See detail on sheet 9

Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.

Shim Space: 3/8" MAX. @ head, jambs & sill. Use std shims behind as required. Use 4 x brackets at each end of an astragal meeting.

Min. edge distance is 2 ½ " for concrete fasteners .

MQ WINDOWS OF EUROPE AND THE AMERICAS
1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH OUTWARD

Drawing no.: JS-2-OUT	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-OUT	Page: 2 / 12

STRUCTURALLY REVIEWED BY:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING, INC.
(COA# 27194)
1271 GRANT STREET
HOLLYWOOD, FL 33019

FEB 15 2012

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0221.04
Expiration Date MARCH 1, 2013
By Manuel Perez
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 14-0305.02
Expiration Date 03/01/2019
By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0312.02
Expiration Date 03/01/2014
By
Miami Dade Product Control

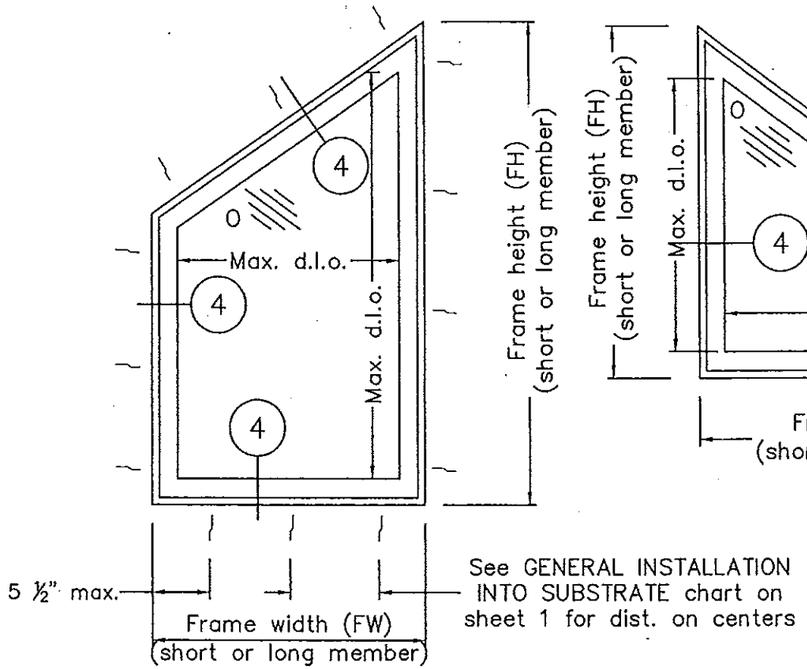
TRIANGULAR FIXED SHAPES

CONFIGURATIONS: O

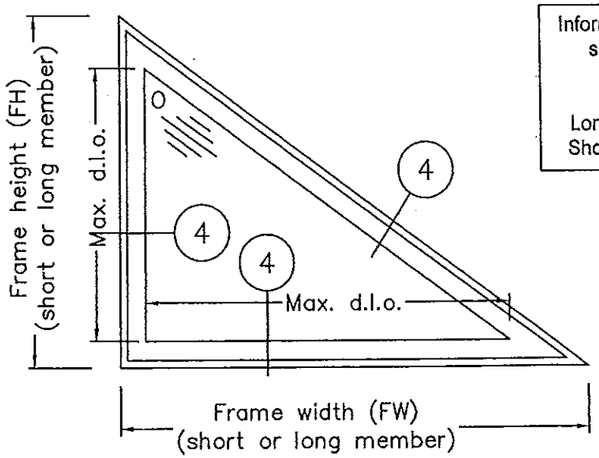
VIEWED FROM THE OUTSIDE
WOOD: Mahogany

DESIGN PRESSURE
Positive Pressure: +58 psf Negative Pressure −68 psf
NOTE: Refer to basic rectangles for minimum and maximum sizes width (FW) & height (FH) NO SHUTTERS ARE REQUIRED.

TO DETERMINE THE MAX. FW AND FH: SHAPES ON THIS PAGE MUST BE INSCRIBED INTO ANY ONE OF THE FOLLOWING BASIC RECTANGLES
42" (FW) x 111 3/8" (FH)
111 3/8" (FW) x 42" (FH)
72 7/16" (FW) x 72 7/16" (FH)



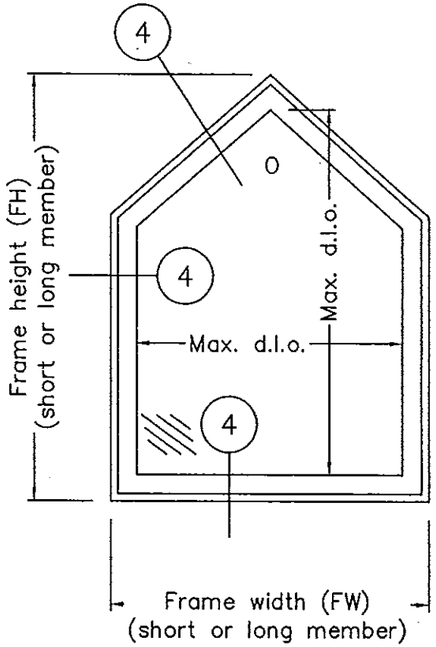
See GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1 for dist. on centers

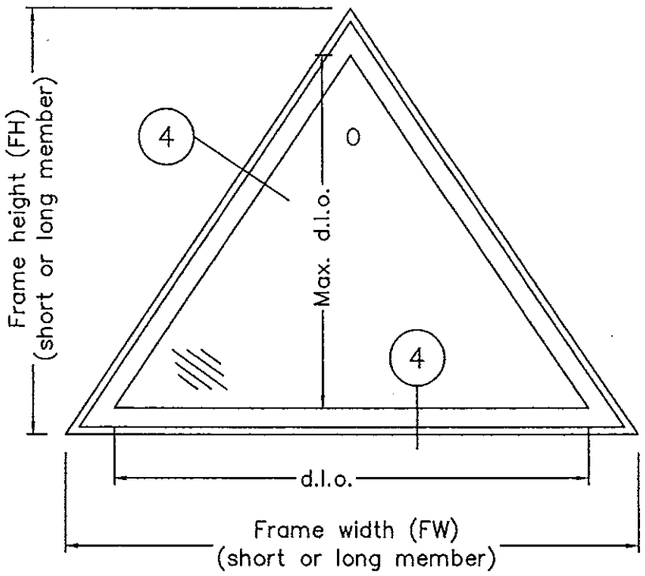


Information on this page applies to cross section 4 (sash "outward") ONLY

Frame Size vs d.l.o. relation is:
Long d.l.o.= long frame dimension - 9"
Short d.l.o.=short Frame dimension- 9"

NOTE:
See section 4 on pages 6 & 7.





TYPE OF GLASS: SINGLE, 15/32" LAMINATED
The rectangular glass d.l.o. circumscribing the shaped unit must be taken and checked into table 2, sheet 11/12 For sizes shown on table 2, sheet 11: TYPE 1, MADE OF: 3/16" (AN) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS) For sizes over those on table 2: TYPE 2, MADE OF: 3/16"(HS) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS) OR TYPE 3, MADE OF: 3/16" (FT) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(FT)
WP: 1 3/4" RAISED WOOD PANEL
Solid Mahogany, MAX. D.L.O. AREA: 7.81 sqf. See detail on sheet 9

Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.
Shim Space: 3/8" MAX. @ head, jambs & sill. Use std shims behind as required.
Min. edge distance is 2 ½ " for concrete fasteners .

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 14-0305.02
Expiration Date 03/01/2014
By
Miami Dade Product Control

1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

MQ WINDOWS OF EUROPE AND THE AMERICAS

JS SERIES
WOOD FIXED WINDOWS
SASH OUTWARD

Drawing no.: JS-2-OUT	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-OUT	Page: 3 / 12

STRUCTURALLY REVIEWED BY:

SCOTT WOLTERS
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WOLTERS ENGINEERING, INC.
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By
Miami Dade Product Control

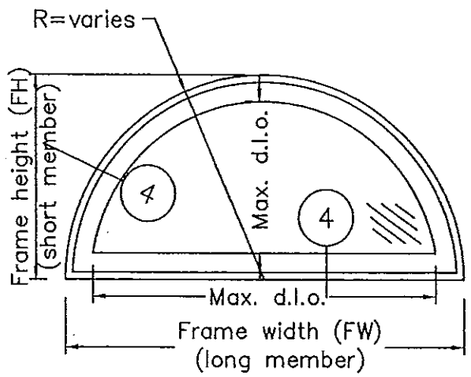
ARCHED FIXED SHAPES

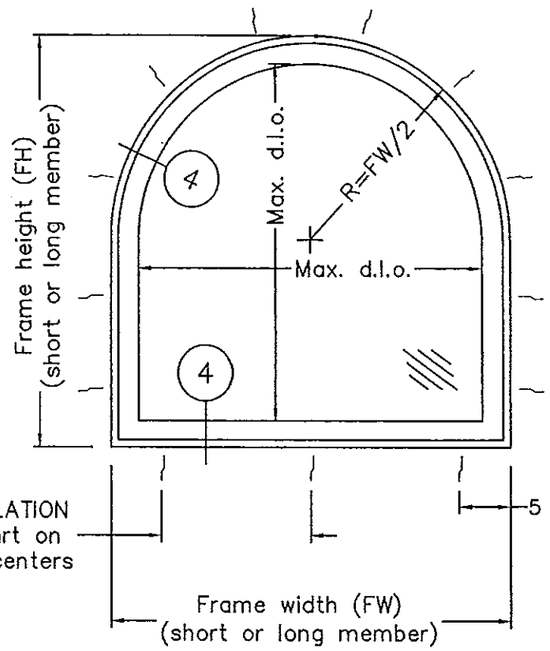
CONFIGURATIONS: O

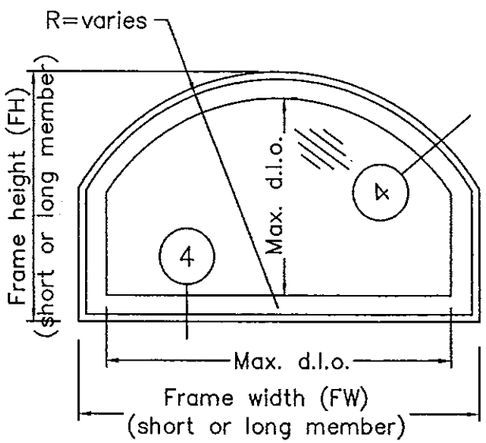
VIEWED FROM THE OUTSIDE
WOOD: Mahogany

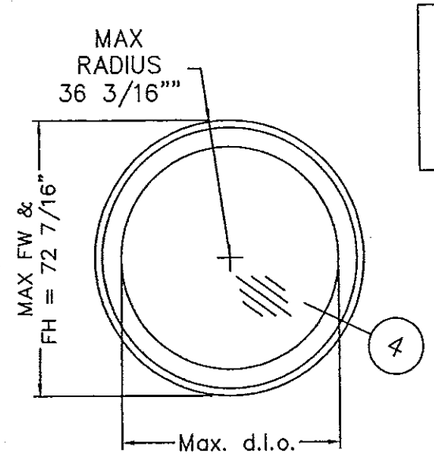
DESIGN PRESSURE
Positive Pressure: +58 psf Negative Pressure −68 psf
NOTE: Refer to basic rectangles for minimum and maximum sizes width (FW) & height (FH) NO SHUTTERS ARE REQUIRED.

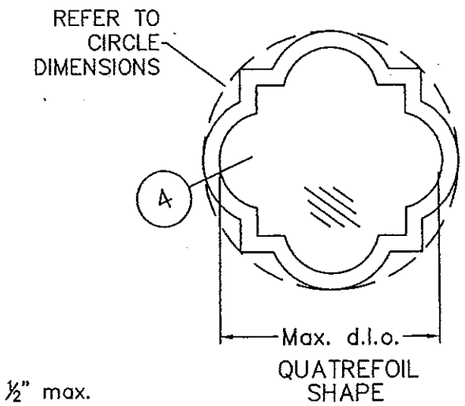
TO DETERMINE THE MAX. FW AND FH: SHAPES ON THIS PAGE MUST BE INSCRIBED INTO ANY ONE OF THE FOLLOWING BASIC RECTANGLES
42" (FW) x 111 3/8" (FH)
111 3/8" (FW) x 42" (FH)
72 7/16" (FW) x 72 7/16" (FH)
76 3/4" (FW) x 58 1/2" (FH)











Information on this page applies to cross section 4 (sash "outward") ONLY

Frame Size vs d.l.o. relation is:
Long d.l.o.= long frame dimension - 9"
Short d.l.o.=short Frame dimension- 9"

NOTE:
See section 4 on pages 6 & 7.

TYPE OF GLASS: SINGLE, 15/32" LAMINATED
The rectangular glass d.l.o. circumscribing the shaped unit must be taken and checked into table 2, sheet 11/12
For sizes shown on table 2, sheet 11: TYPE 1, MADE OF: 3/16" (AN) - 0.090" PVB Saflex III G interlayer by Solutia-/16"(HS)
For sizes over those on table 2: TYPE 2, MADE OF: 3/16"(HS) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS) OR TYPE 3, MADE OF: 3/16" (FT) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(FT)
WP: 1 3/4" RAISED WOOD PANEL
Solid Mahogany, MAX. D.L.O. AREA: 7.81 sqf. See detail on sheet 9

Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.
Shim Space: 3/8" MAX. @ head, jambs & sill. Use std shims behind as required.
Min. edge distance is 2 ½ " for concrete fasteners .

PRODUCT RENEWED
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1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

WINDOWS OF EUROPE AND THE AMERICAS

JS SERIES
WOOD FIXED WINDOWS
SASH OUTWARD

Drawing no.: JS-2-OUT	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-OUT	Page: 4 / 12

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SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING, INC.
(COA# 27194)
1271 GRANT STREET
HOLLYWOOD, FL 33019

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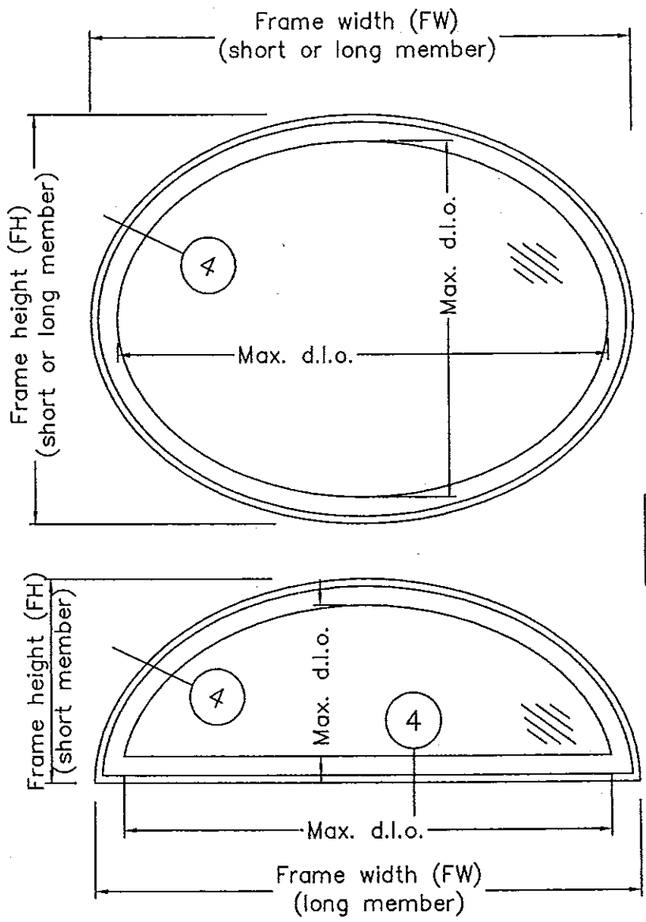
OVAL FIXED SHAPES

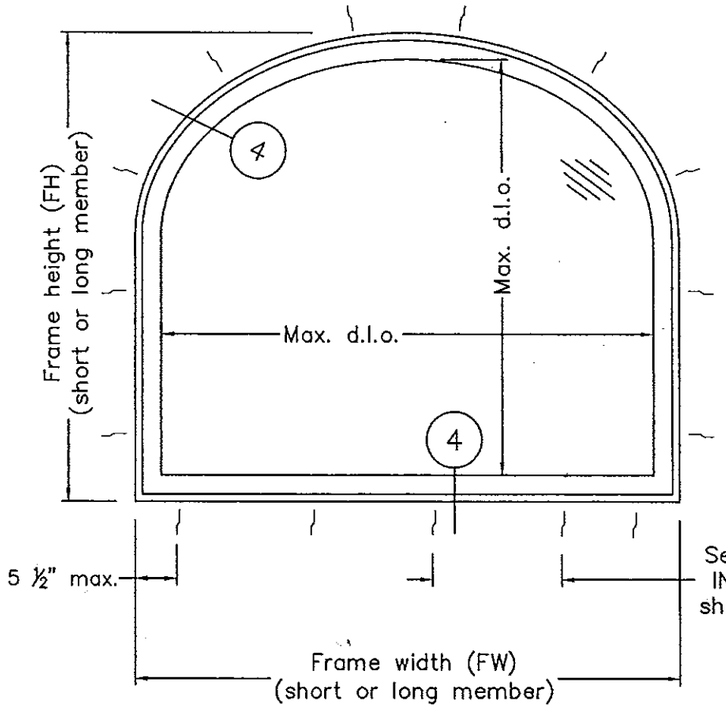
CONFIGURATIONS: O

VIEWED FROM THE OUTSIDE
WOOD: Mahogany

DESIGN PRESSURE
Positive Pressure: +58 psf Negative Pressure −68 psf
NOTE: Refer to basic rectangles for minimum and maximum sizes width (FW) & height (FH) NO SHUTTERS ARE REQUIRED.

TO DETERMINE THE MAX. FW AND FH: SHAPES ON THIS PAGE MUST BE INSCRIBED INTO ANY ONE OF THE FOLLOWING BASIC RECTANGLES
42" (FW) x 111 3/8" (FH)
111 3/8" (FW) x 42" (FH)
72 7/16" (FW) x 72 7/16" (FH)
76 3/4" (FW) x 58 1/2" (FH)





See GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1 for dist. on centers

Information on this page applies to cross section 4 (sash "outward") ONLY

Frame Size vs d.l.o. relation is:
Long d.l.o.= long frame dimension - 9"
Short d.l.o.=short Frame dimension- 9"

NOTE:
See section 4 on pages 6 & 7.

TYPE OF GLASS: SINGLE, 15/32" LAMINATED
The rectangular glass d.l.o. circumscribing the shaped unit must be taken and checked into table 2, sheet 11/12
For sizes shown on table 2, sheet 11: TYPE 1, MADE OF: 3/16" (AN) - 0.090" PVB Saflex III G interlayer by Solutia-/16"(HS)
For sizes over those on table 2: TYPE 2, MADE OF: 3/16"(HS) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(HS) OR TYPE 3, MADE OF: 3/16" (FT) - 0.090" PVB Saflex III G interlayer by Solutia-3/16"(FT)
WP: 1 3/4" RAISED WOOD PANEL
Solid Mahogany, MAX. D.L.O. AREA: 7.81 sqf. See detail on sheet 9

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Spacing: All fasteners spacing is 5 1/2" from corners and o/c as specified in GENERAL INSTALLATION INTO SUBSTRATE chart on sheet 1.
Shim Space: 3/8" MAX. @ head, jambs & sill. Use std shims behind as required.
Min. edge distance is 2 ½ " for concrete fasteners .

1855 GRIFFIN ROAD,
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WINDOWS OF EUROPE AND THE AMERICAS

JS SERIES
WOOD FIXED WINDOWS
SASH OUTWARD

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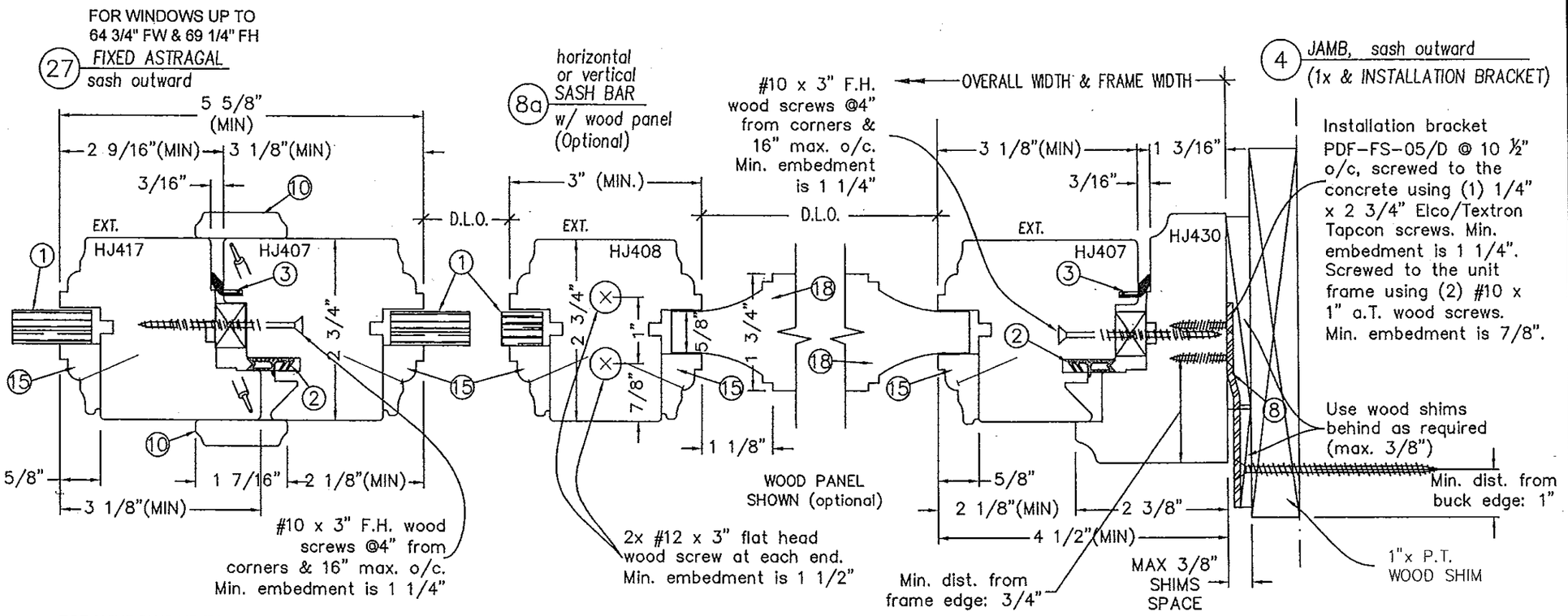

NOTE: Clear "Spectrem 2" silicone sealant at shown interfaces

(#) NUMBERS ARE REFERRING TO THE ASSEMBLY LISTS ON PAGES 9 TO 11

MQ WINDOWS OF EUROPE AND THE AMERICAS
1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH OUTWARD

Drawing no.: JS-2-OUT	
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Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-OUT	Page: 6 / 12

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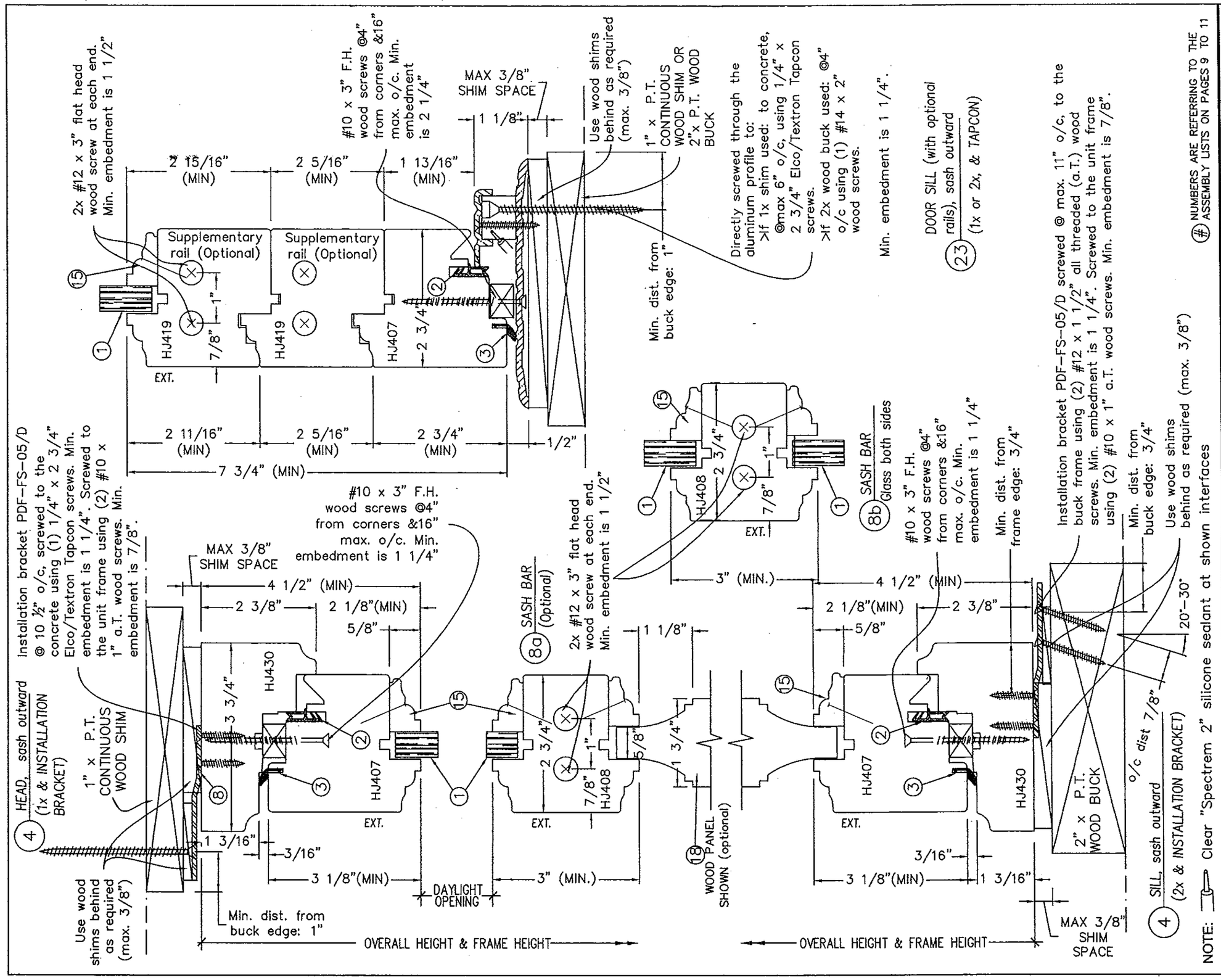

1855 GRIFFIN ROAD,
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JS SERIES WOOD FIXED WINDOWS SASH OUTWARD

Drawing no.: JS-2-OUT	
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File: JS-2-OUT	Page: 7 / 12

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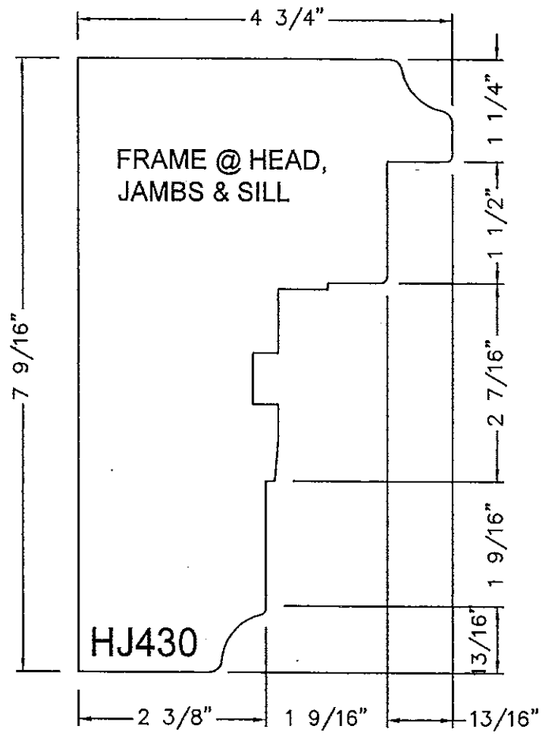

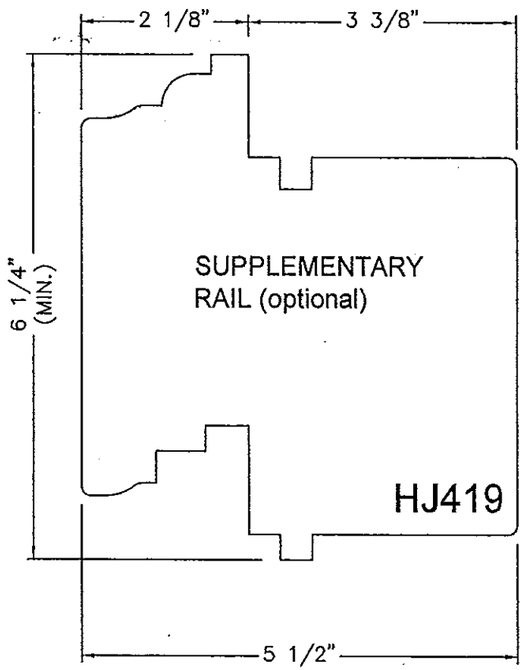

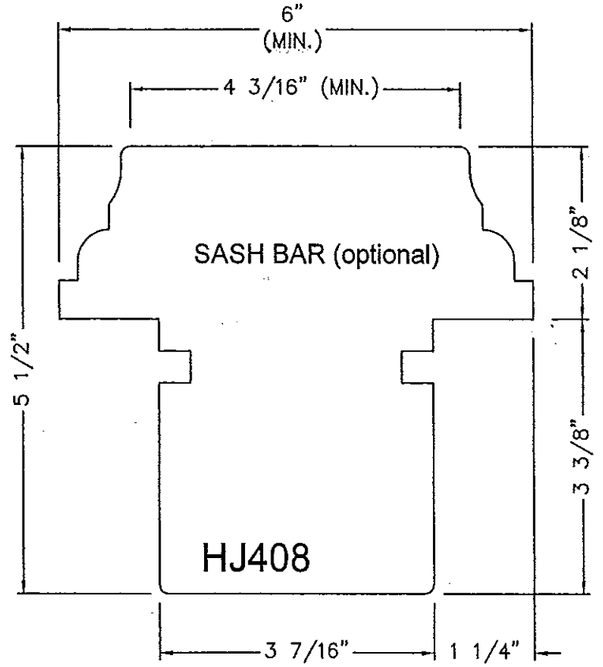

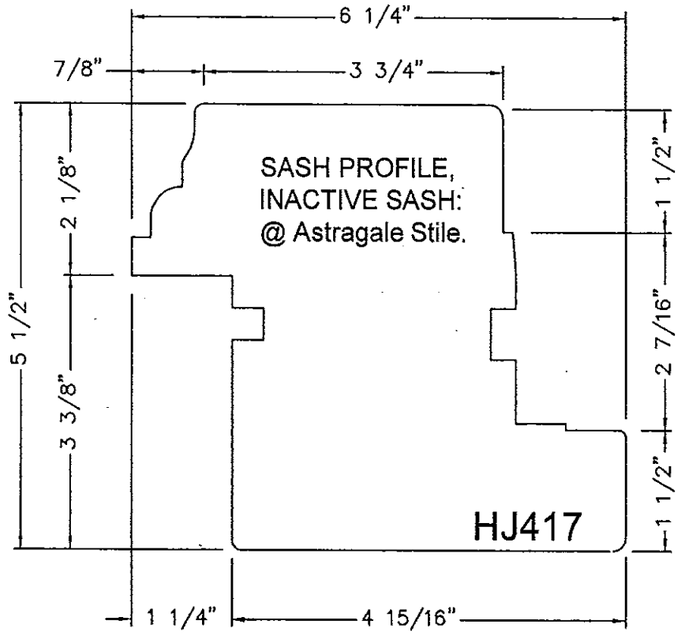

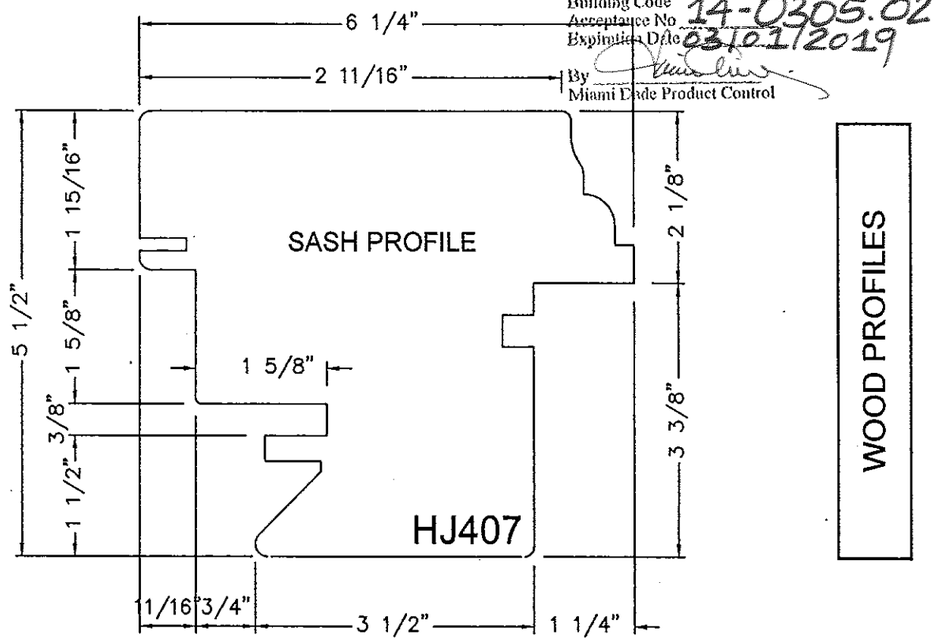

WOOD PROFILES

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JS SERIES
WOOD FIXED WINDOWS
SASH OUTWARD

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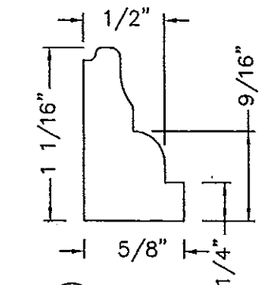
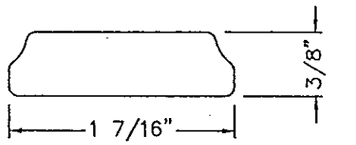
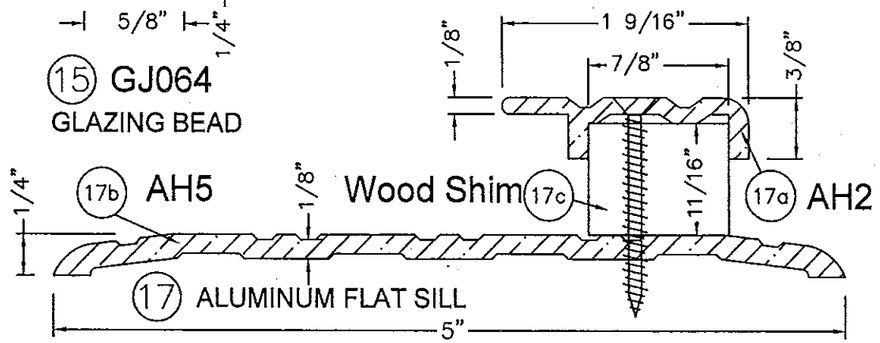
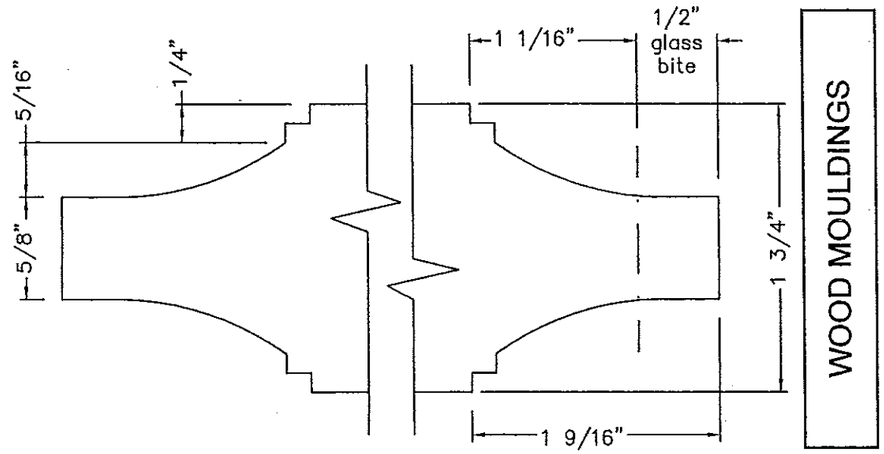


(15) GJ064
GLAZING BEAD



(10) ZJ142 ASTRAGAL MOULDING





(18) PT001
RAISED WOOD PANEL

WOOD MOULDINGS

BILL OF MATERIALS (see also related cross sections details)

REF.	QTY	Component	DESCRIPTION	MATERIAL	DIMENSIONS	MEAN OF ATTACHMENT	LOCATION
(10)	2 per astragal meeting	Astragal moulding	ZJ142 astragal wood cover. Square cut at the ends.	Mahogany	3/8"(d) x 1 7/16"(w) x sash height	18 gauge, 5/8" galvanized finishing nails spaced 16" o/c.	SASH OUTWARD: One nailed on the interior face of the passive sash & one nailed on the exterior face of the active sash.
(15)	1 per glass edge	Glazing bead	GJ064 wood profile, mitre cut at corners.	Mahogany	1 1/16"(d) x 5/8"(w)	18 gauge, 1" finishing nails spaced 2" from the corners and 10" o/c	@ the perimeter of the glass or wood panel; Nailed through the glazing bead to the sash profile. SEE ALSO "GLAZING METHOD", sheet 11/12
(17a)	1 per door sill	Flat saddle	AH5 aluminum profile	Alu. alloy 6063-T5	1/4"(h)x 5"(d) x 1/8"(t)	2x #12 x 2" F.H. screw	Door frame sill. Screwed @ both ends into the unit frame jambs. Square cut @ ends. See " Aluminum flat sill assembly" on sheet 12 / 12
(17b)	1 per door sill	Stopper	AH2 aluminum profile	Alu. alloy 6063-T5	3/8"(h) x 1 9/16"(d) x 1/8"	#12 x 1 1/4" flat head screws	Door frame sill. Screws spacing is 14" o/c. Butt joint against the frame jambs @ both ends.
(17c)	1 per door sill	Shim	Continuous wood shim	Mahogany	7/8"(d) x 11/16"(h)	See AH2 screw.	Door frame sill. Screws spacing is 14" o/c. Butt joint against the frame jambs @ both ends.
(18)	One	Wood panel	Raised wood panel: 5/8"(t) @ flanges, 1 3/4"(t) @ center.	Mahogany	1" wider & higher than glass opening.	Dow Corning 995 structural silicone at the perimeter;	Where indicated as WP (WOOD PANEL) on elevations

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(#) REF. NUMBERS ARE RELATED TO THOSE USED ON CROSS SECTIONS DRAWINGS

Clear "Spectrem 2" silicone sealant at shown interfaces

MQ WINDOWS OF EUROPE AND THE AMERICAS
1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES
WOOD FIXED WINDOWS
SASH OUTWARD

Drawing no.: JS-2-OUT	
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Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-OUT	Page: 9 / 12

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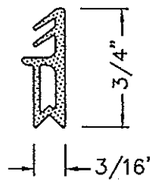
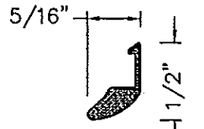
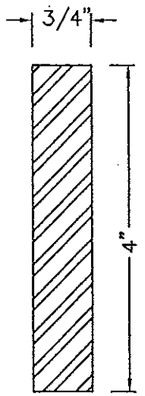


② L5150
MIDDLE GASKET

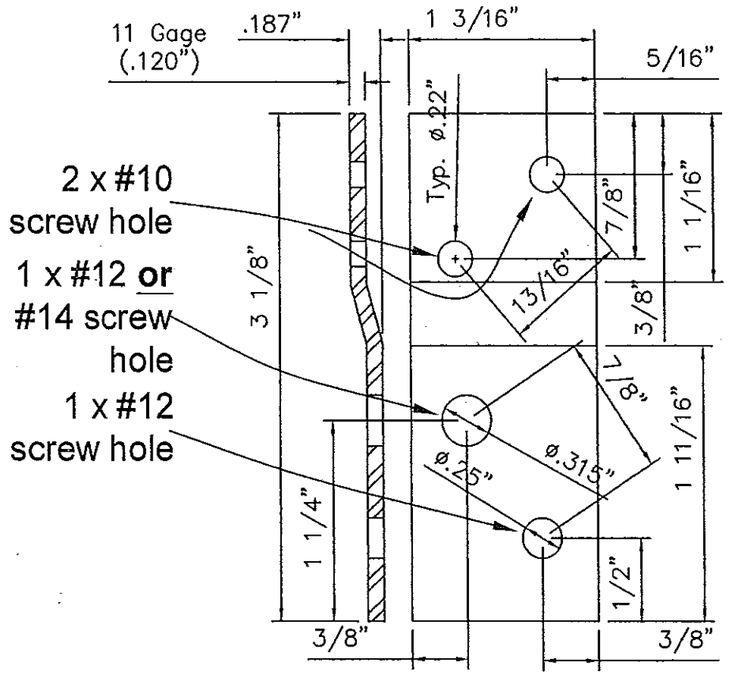


③ QWS250
GASKET



⑥ AI1050
GALVANIZED
STEEL FLAT BAR
AISI 1020, COLD DRAWN,
YIELD POINT 47,000 psi

For windows up
to 77 3/16" FW
& 111 3/4" FH



⑧ PDF-FS-05/D INSTALLATION BRACKET
Gage 11 ASTM A653 SQ 33 G90 galvanized steel

ACCESSORIES

BILL OF MATERIALS (see also related cross sections details)

REF.	QTY	Component	DESCRIPTION	MATERIAL	DIMENSIONS	MEAN OF ATTACHMENT	LOCATION
②	LF depends on sash perimeter	Middle gasket	Brügman L5150, Push–in middle gasket; mitre cut @ corners	EPDM	3/16"(d) x 3/4"(h)	Push–in gasket, in a continuous groove around the sash.	Perimeter of the active & fixed sashes; Head, bottom & hinged stile of inactive sash.
③	LF depends on sash perimeter	Gasket	Schlegel QWS250 foam gasket, mitre cut @ corners.	Polyure–thane foam	5/16"(d) x 1/2"(h)	Push–in gasket, in a continuous groove around the sash.	Perimeter of the active & fixed sashes; Head, bottom & hinged stile of inactive sash.
⑥	2 per astragal	Reinfor–cement	AI1050, Galvanized Steel AISI C1020, Cold drawn	Steel	3/8"(t) x 2"(d)	1/4" x 1" steel bolt, @ 9" from the bottom of the steel and @ 14" o/c.	@ stiles of an astragal meeting (inactive or active sash), for frame width (FW) greater than 64 3/4" or frame height (FH) greater than 69 1/4". Steel lenght is 12" less than the sash height.
⑧	Depends on frame perim.	Instal–lation	PDF–FS–05/D Installation bracket Gage 11 ASTM A653 SQ 33 G90 galvanized steel	Galv. Steel	1.181"(w) x 3.125"(h) x 11g(t)	To the frame: 2x #10 x 1" wood screws. Min. embedment is 7/8" To structure: See instal–lation notes pages 1–5	Around the frame perimeter, @ 5 1/2" from corners; Max. distance on center (o/c): 11"

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MQ WINDOWS OF EUROPE AND THE AMERICAS
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JS SERIES
WOOD FIXED WINDOWS
SASH OUTWARD

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Date drawn: 01/10/99	Date revised: 05/12/06
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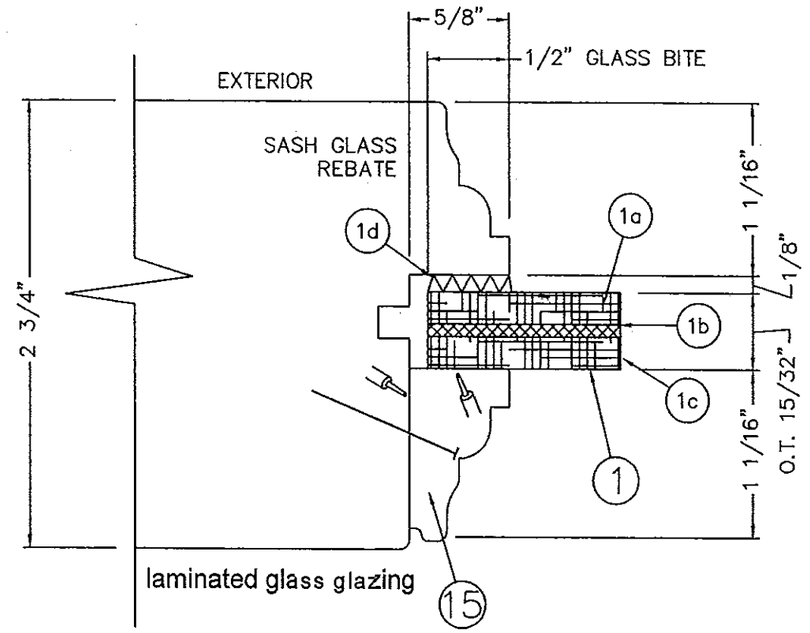
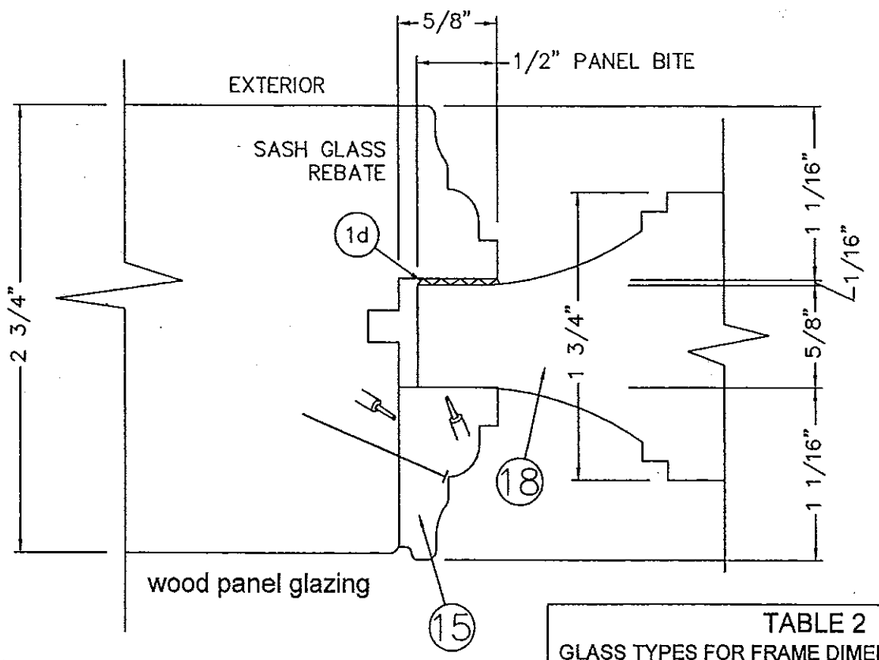




GLAZING METHOD (inside glazed)

BILL OF MATERIALS

REF.	Component	DESCRIPTION	MEAN OF ATTACHMENT	LOCATION
①	Impact Glass, see components 1a,1b,1c	15/32" (t) Laminated glass (3/8" [10mm] designation)	See components 1d, and 15	As indicated on elevations drawings by the ▨ symbol.
1a	Exterior glass sheet	3/16" (t) (5mm) as following: >Type 1: Annealed glass for d.l.o. dimensions on table 3 >Type 2: Heat strengthened glass for d.l.o. dimensions exceeding those into table 3	See components 1b: PVB interlayer	Exterior side
1b	Saflex III G PVB interlayer by Solutia	Saflex III G 0.090" (t) PVB plastic film by Solutia , per current approval	2 sides adhesive film	Between the interior and the exterior sheets of glass
1c	Interior glass sheet	3/16" (t) (5mm) heat strengthened glass	See components 1b: PVB interlayer	Interior side (glazing bead side)
1d	Structural silicone	Dow Corning 995 black silicone	1/8"(t) x 1/2"(w) bonding extrusion	Continuous extrusion between the wood back fence & the exterior sheet edge of the laminated glass or wood panel.
⑮	Glazing bead	GJ064 wood profile (5/8"(t) x 1 1/16"(d)	18 gauge, 1" finishing nails spaced 2" from the corners and 10" o/c	@ the perimeter of the glass.
⑱	Wood panel	Mahogany, raised: 5/8"(t) @ flanges, 1 3/4"(t) @ center; Max. d.l.o. area up to 7.81 sqf	See components 1d, and 15	As indicated on elevation drawings.

Clear "Spectrem 2" silicone sealant at shown interfaces

(#) REF. NUMBERS ARE RELATED TO THOSE USED ON CROSS SECTIONS DRAWINGS

TABLE 2

GLASS TYPES FOR FRAME DIMENSIONS OF TABLE 1 OR FOR BASIC RECTANGLES GIVEN ON SHEETS 2, 3, 4 AND 5 OF THIS DRAWING

If, for a given long member d.l.o., the actual short member daylight opening exceeds the maximum dimension indicated on table 2, then

TYPE 2 heat strenghtened laminated glass [3/16" HS - .09" PVB interlayer, Saflex IIIG by Solutia - 3/16" HS]

OR TYPE 3 full tempered laminated glass [3/16" FT - .09" PVB interlayer, Saflex IIIG by Solutia - 3/16" FT]

MUST BE USED

Maximum daylight opening for type 1 laminated glass [3/16" AN - .090" PVB interlayer by Solutia - 3/16" HS]

Given Long member d.l.o. up to (in.)	Max. short member d.l.o. (in.)	Given Long member d.l.o. up to (in.)	Max. short member d.l.o. (in.)
47 1/4	47.244	90 1/2	28.150
51	41.339	94 1/2	27.953
55	38.386	98 1/2	27.559
59	36.220	102 1/4	27.362
63	34.055	106 1/4	26.969
66	32.480	110 1/4	26.772
70 3/4	31.496	114	26.575
74 3/4	30.512	118	26.378
78 3/4	29.528	122	26.220
82 1/2	28.937	126	26.102
86 1/2	28.543	130	25.984

MQ WINDOWS OF EUROPE AND THE AMERICAS
1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

JS SERIES WOOD FIXED WINDOWS SASH OUTWARD

Drawing no.: JS-2-OUT	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-OUT	Page: 11 / 12

STRUCTURALLY REVIEWED BY:

SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
1271 GRANT STREET
HOLLYWOOD, FL 33019

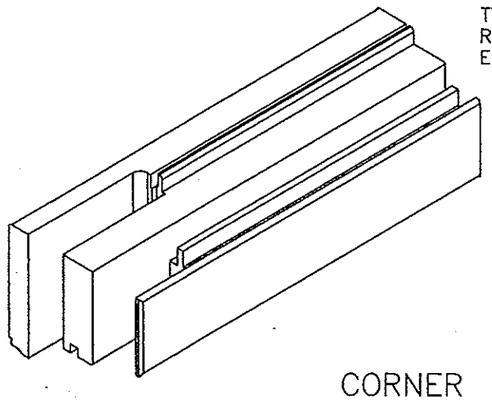
FEB 15 2012

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0721.04
Expiration Date MARCH 1, 2013
By Manuel Perez
Miami Dade Product Control

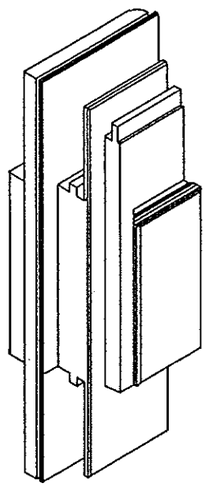
PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 14-0305.02
Expiration Date 03/01/2019
By
Miami Dade Product Control

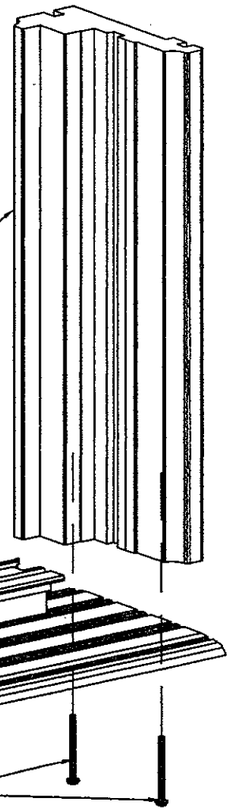
PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0312.02
Expiration Date 03/01/2014
By
Miami Dade Product Control

TYPE OF GLUE:
RESIBOIS 222 no 30222-01 TYPE 1
EXTERIOR GLUE FOR WOOD



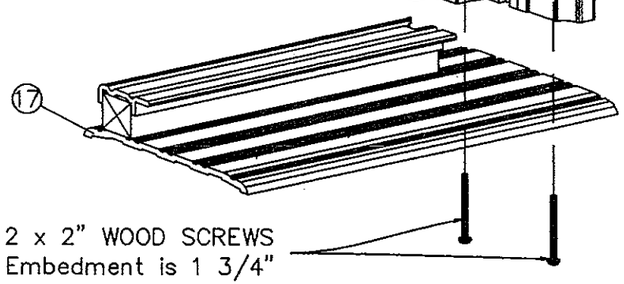
CORNER
ASSEMBLY
(MULTI-FORK)



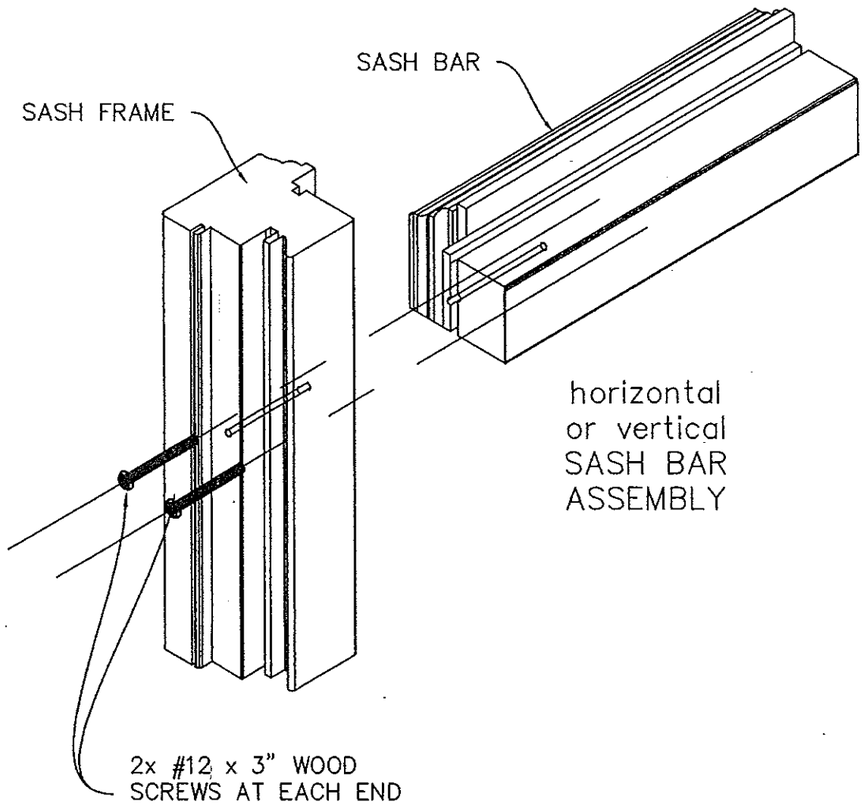


FRAME JAMB

ALUMINUM FLAT
SILL ASSEMBLY



#12 x 2" WOOD SCREWS
Embedment is 1 3/4"



horizontal
or vertical
SASH BAR
ASSEMBLY

2x #12 x 3" WOOD
SCREWS AT EACH END
MIN. EMBEDMENT IS 1 1/2"

PRODUCT RENEWED
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1855 GRIFFIN ROAD,
SUITE A-271
DANIA, FL 33004

JS SERIES
WOOD FIXED WINDOWS
SASH OUTWARD

Drawing no.: JS-2-OUT	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 01/10/99	Date revised: 05/12/06
File: JS-2-OUT	Page: 12 / 12

STRUCTURALLY REVIEWED BY:

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1271 GRANT STREET
HOLLYWOOD, FL 33019

FEB 15 2012

PRODUCT REVISED
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Expiration Date MARCH 1, 2013
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